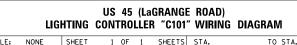


STATE OF ILLINOIS



7.5

28.6

1980

6864

COUNTY 330 103R-4 COOK 877 450 E-39 CONTRACT NO. 60M61

PROPOSED LIGHTING UNIT: 400W, 240V PHASE TO NEUTRAL, HPS LUMINAIRE WITH TYPE MC-III DISTRIBUTION, 45'-2" ALUMINUM POLE SHAFT ON 24" DIAMETER CONCRETE FOUNDATION, 47'-6" MOUNTING HEIGHT, 12'-0" MAST ARM, WITH 5A FUSES AND T-BASE (RED PHASE-DADED SYMPO) OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED LIGHTING UNIT (ORANGE PHASE-OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)

EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND GFCI RECEPTACLE, 5A FUSES (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)



LEGEND:

PROPOSED ROADWAY LIGHTING CONTROLLER 200A, 240/480V, 10, 3W, SPECIAL SINGLE DOOR, BASE MOUNTED



EXISTING COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION PROPOSED COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION

PROPOSED CONDUIT AND CABLE AS INDICATED TO SECONDARY SIDE OF UTILITY SERVICE

PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS INDICATED

NOTES:

- 1. SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
- 2. COLOR CODING OF CONDUCTORS FOR 240/480V, 10, 3W LIGHTING SYSTEM IS AS FOLLOWS:

"A" PHASE - RED
"B" PHASE - BLACK
NEUTRAL - WHITE NEUTRAL - GREEN GROUND

3. COLOR CODING OF CONDUCTORS FOR 120/240V, 10, 3W RECEPTACLE SYSTEM IS AS FOLLOWS:

"A" PHASE - ORANGE
"B" PHASE - BROWN
NEUTRAL - GRAY
GROUND - GREEN

4. CONTRACTOR TO CONNECT PROPOSED ROADWAY LIGHTING CONTROLLER "CIOI" TO THE EXISTING COMED SERVICE TRANSFORMER AT DISCRETION OF COMED AND THE ENGINEER. FURNISH AND INSTALL NEW CABLE IN CONDUIT BETWEEN COMED TRANSFORMER AND CONTROLLER AS SHOWN. REFER TO NOTE 2 ON DRAWING E-17 FOR FURTHER INFORMATION.

LIGHTING CONTROLLER "C101" RECEPTACLE PANEL LOAD TABLE

CIRCUIT

R4

R6

R8

R10

R12

R14

R16

R18

TOTAL

BROWN PHASE

WATTS

180

180

900

720

--

--

--

1980

AMPS

1.5

1.5

7.5

16.5

ORANGE PHASE

WATTS

360

360

900

720

--

2340

LOAD TABULATION IS BASED ON THE FOLLOWING:

AMPS

7.5

6

--

19.5

CIRCUI1

R1

R3

R5

R7

R9

R11

R13

R15

R17

TOTAL

LIGHTING CONTROLLER "C101" ROADWAY LIGHTING PANEL LOAD TABLE RED PHASE BLACK PHASE

LaGRANGE ROAD

	CIRCUIT					
		AMPS	WATTS	CIRCUIT	AMPS	WATTS
	A	4	960	В	2	480
	С	4	960	D	2	480
	Ε	9.1	1920	F	9.1	1920
	G	8	1920	Н	8	1920
	I			J		
	K			L		
	М			N		
	0			Р		
	0			R		
	S			T		
	С			٧		

9.75 2340 TOTAL TOTAL 34.85 8364

→©→ Z

153rd ST

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V
• FOR FUTURE MEDIAN RECEPTACLE LOADS

400W HPS LUMINAIRE: 2.0A AT 240V 250W HPS LUMINAIRE: 1.1A AT 240V

FILE NAME : 160M61-SHT-E39.dgr

TYPICAL COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM
TYPICAL FOR ALL INTERSECTIONS

N.T.S.

DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 1 OF 1 SHEETS STA.

LaGRANGE ROAD ZZ.A.1 ZZ.B.1 1" UD, 4-1/C *10 & 1/C *10 GND.
WIRING FOR LIGHTS ON COMBINATION POLES 1" UD, 4-1/C *10, 1/C *10 GND (TYPICAL)

156th STREET to 144th PLACE (7 INTERSECTIONS TOTAL)

DEPARTMENT OF DEFENSE ENTRANCE

C.2 R3

3-1/C *3/0 2¹/₂'' RGC

ZZ.A.2

PROPOSED COMBINATION TRAFFIC SIGNALS/LIGHTING CONTROLLER "ZZ" (TYP.)

156th ST

E.1 R5

-EXISTING COMED SERVICE TRANSFORMER, NOTE 4

STA. 188+40, 73 RT

ZZ.B.2

PROPOSED LIGHTING CONTROLLER "C101" 200A, 240/480V, 10, 3W 15601 S. Lagrange RD.

C.1 R3

' UD, 3-1/C *8 & 1/C *10 GND.
" RGC (SEPARATE CONDUIT)

→⊕→ Z

-PROPOSED COMBINATION SERVICE DISCONNECT, EXACT LOCATION BY TRAFFIC SIGNAL CONTRACTOR

CIRCUIT CIRCUIT AMPS WATTS AMPS WATTS 960 960 R С D 960 TOTAL 960 TOTAL 4.0 4.0

PROPOSED COMBINATION POLE LIGHTING UNIT: 400W, 2.0A AT 240V PHASE TO PHASE, HPS LUMINAIRE WITH TYPE MC-III DISTRIBUTION

PROPOSED COMBINATION LIGHTING CONTROLLER ATTACHED TO SIDE OF TRAFFIC SIGNAL CABINET 120/240V, 10, 3W

COMBINATION SERVICE DISCONNECT CABINET GROUND OR POLE MOUNTED, SEE TRAFFIC SIGNAL PLANS FOR LOCATION AT EACH INTERSECTION

COMBINATION TRAFFIC/LIGHTING CONTROLLER

ROADWAY LIGHTING PANEL LOAD TABLE

(TYPICAL FOR ALL INTERSECTIONS IN THIS CONTRACT)

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A AT 240V

1 1/4" UD, 3-1/C =6, 1-1/C =8 GND (LIGHTING) 1 1/2" UD, 3-1/C =2, 1-1/C =4 GND (RECEPTACLE) TYPICAL

E.2 R5

LIGHTING CONTROLLER "C101" WIRING DIAGRAM
N.T.S.

DARVIN ENTRANCE

E.3 R5

1 1/4" UD, 3-1/C =6, 1-1/C =8 GND (LIGHTING) 1 1/2" UD, 3-1/C =2, 1-1/C =4 GND (RECEPTACLE) TYPICAL